What is claimed is:

A microscope for inspecting a semiconductor wafer, comprising:
an optical unit including objective lenses and oculars for observing the
semiconductor wafer;

a display unit for magnifying and displaying an image of the semiconductor wafer observed by the optical unit;

a sample piece stage holding the semiconductor wafer;

a stage moving unit for moving the semiconductor wafer in an x-axis direction, a y-axis direction and/or a z-axis direction;

a stage rotation unit for rotating the semiconductor wafer in a horizontal direction;

a stage tilting unit for tilting the semiconductor wafer; and a controller for controlling operation of the microscope.

- 2. The microscope of claim 1, wherein the stage tilting unit includes: a rotation shaft for rotatably supporting the sample piece stage; and a motor for generating a power to vertically rotate the rotation shaft.
- 3. The microscope of claim 2, wherein the motor of the stage tilting unit is a stepping motor.

- 4. The microscope of claim 1, wherein the sample piece stage includes at least one wafer detecting sensor for detecting whether the semiconductor wafer is laid on the sample piece stage.
- 5. The microscope of claim 1, wherein the sample piece stage includes at least two wafer stoppers at a radius distance of a round portion of the semiconductor wafer from a central pivot of the semiconductor wafer.
- 6. The microscope of claim 1, wherein the sample piece stage includes a flat zone detecting sensor for detecting a flat zone of the semiconductor wafer.
- 7. The microscope of claim 1, wherein the stage rotation unit includes a vacuum line, a vacuum chuck including a vacuum absorber for holding the semiconductor wafer using a vacuum pressure, and a motor for generating a power to rotate the vacuum chuck.
- 8. The microscope of claim 7, wherein the motor of the stage rotation unit is a DC motor.
 - 9. An inspection station for a semiconductor wafer, comprising: a platform for holding the semiconducting wafer thereon; rotating means for rotating the semiconductor wafer to a desired tilt angle; a controller for adjusting the tilt angle of the smiconductor wafer; and

an optical unit for viewing an image of at least a portion of the semiconductor wafer to perform an inspection thereof.

- 10. The inspection station of claim 9, further comprising a display unit for displaying the image of the portion of the semiconductor wafer.
- 11. The inspection station of claim 9, further comprising a platform moving unit for moving the platform along at least two axes.
- 12. The inspection station of claim 9, wherein the rotating means further comprises:
 - a vacuum chuck for holding the semiconductor wafer on the platform; and a motor for supplying power to the vacuum chuck.
 - 13. The inspection station of claim 9, wherein the motor is a stepping motor.
- 14. The inspection station of claim 9, wherein the platform includes at least one wafer detecting sensor for detecting whether the semiconductor wafer is laid on the platform.
- 15. The inspection station of claim 9, wherein the platform includes at least one wafer stopper for aligning the semiconductor wafer on the platform.

- 16. The inspection station of claim 9, wherein the controller includes means for selecting thea desired tilt angle of the semiconductor wafer.
- 17. The inspection station of claim 9, wherein the controller includes means for controlling a speed at which the tilt angle of the semiconductor wafer is changed.